

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION OF:)
)
DAVID P. WILKINSON,)
MARK C. JOHNSON,)
KEVIN M. COLBOW and)
STEPHEN A. CAMPBELL)
)
SERIAL NO.)
)
FILED: August 1, 2003)
)
FOR: METHOD AND APPARATUS FOR)
REDUCING REACTANT)
CROSSOVER IN A LIQUID FEED)
ELECTROCHEMICAL FUEL CELL)
)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicants submit herewith an Information Disclosure Statement along with PTO/SB/08A (substitute for form 1449) (copy enclosed herewith), corresponding to the above application. Copies of all cited references were submitted to the office in U.S. Application No. 09/255,428 and the present application relies on the '428 application for an earlier filing date under 35 U.S.C. § 120. Under MPEP 609, copies are not required with the IDS.

<u>U.S. Patent No.</u>	<u>Inventor(s)</u>	<u>Date</u>
4,457,987	Horiba	07/1984
5,035,962	Jensen	07/1991
5,068,161	Keck et al.	11/1991
5,132,193	Reddy et al.	07/1992
5,185,218	Brokman et al.	02/1993
5,277,996	Marchetti et al.	01/1994
5,316,871	Swarthirajan et al.	05/1994
5,409,785	Nakano et al.	04/1995
5,472,799	Watanabe	12/1995
5,501,915	Hards et al.	03/1996
5,523,177	Kosek et al.	06/1996
5,573,866	Van Dine et al.	11/1996
5,672,439	Wilkinson et al.	09/1997
5,874,182	Wilkinson et al.	02/1999

<u>Foreign Patent No.</u>	<u>Country</u>	<u>Date</u>
1,130,733	Great Britain	10/1968
0 090 358	Europe	10/1983
06-203852 (abstract)	Japan	10/1994

<u>Publication</u>	<u>Author(s)</u>	<u>Date</u>
"Dependence of performance of solid polymer electrolyte fuel cells with low platinum loading on morphologic characteristics of the electrodes", <i>J. Applied Electrochem.</i> , Vol. 21, No. 7, pp. 597-605.	Ticianelli et al.	06/1991
"Effect of the Electrode Structure on the Electrocatalytic Oxidation of Low-Weight Alcohols. Applications to the Direct Alcohol Fuel Cell", <i>Proceedings of the Electro-chemical Society</i> , Vol. 94-23, pp. 275-93.	Laborde et al.	1994
"Advances in direct oxidation methanol fuel cells", <i>Journal of Power Sources</i> , Vol. 47, pp. 377-85.	Surampudi et al.	1994
"A Methanol Impermeable Proton Conducting Composite Electrolyte System", <i>J. Electrochem. Soc.</i> , Vol. 142, No. 7, pp. L119-20.	Pu et al.,	07/1995
"Recent Advances in PEM Liquid-Feed Direct Methanol Fuel Cells", 11th Annual Battery Conference Applications and Advances, pp. 113-22.	Narayanan et al.	1996

The above references are listed on the enclosed Form PTO/SB08A entitled "Information Disclosure Statement by Applicant".

Please charge any additional fees incurred in connection
with this submission to Deposit Account No. 13-0017.

Respectfully submitted,



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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	
Filing Date	August 1, 2003
First Named Inventor	David P. Wilkinson
Group Art Unit	
Examiner Name	
Attorney Docket Number	10557US04

Sheet 1 of 2

U.S. PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		4,457,987	07/1984	Horiba	
		5,035,962	07/1991	Jensen	
		5,068,161	11/1991	Keck et al.	
		5,132,193	07/1992	Reddy et al.	
		5,185,218	02/1993	Brokman et al.	
		5,277,996	01/1994	Marchetti et al.	
		5,316,871	05/1994	Swarthirajan et al.	
		5,409,785	04/1995	Nakano et al.	
		5,472,799	12/1995	Watanabe	
		5,501,915	03/1996	Hards et al.	
		5,523,177	06/1996	Kosek et al.	
		5,573,866	11/1996	Van Dine et al.	
		5,672,439	09/1997	Wilkinson et al.	
		5,874,182	02/1999	Wilkinson et al.	

FOREIGN PATENT DOCUMENTS

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		1,130,733	10/1968	Great Britain		
		0 090 358	10/1983	Europe		
		06-203852 (Abstract)	10/1994	Japan		

EXAMINER
SIGNATURE

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	
				Filing Date	August 1, 2003
				First Named Inventor	
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	10557US04
Sheet	2	Of	2		

OTHER ART -- NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
		Ticianelli et al., "Dependence of performance of solid polymer electrolyte fuel cells with low platinum loading on morphologic characteristics of the electrodes", <i>J. Applied Electrochem.</i> , Vol. 21, No. 7, pp. 597-605, 06/1991.
		Laborde et al., "Effect of the Electrode Structure on the Electrocatalytic Oxidation of Low-Weight Alcohols. Applications to the Direct Alcohol Fuel Cell", <i>Proceedings of the Electro-chemical Society</i> , Vol. 94-23, pp. 275-93, 1994.
		Surampudi et al., "Advances in direct oxidation methanol fuel cells", <i>Journal of Power Sources</i> , Vol. 47, pp. 377-85, 1994.
		Pu et al., "A Methanol Impermeable Proton Conducting Composite Electrolyte System", <i>J. Electrochem. Soc.</i> , Vol. 142, No. 7, pp. L119-20, 07/1995.
		Narayanan et al., "Recent Advances in PEM Liquid-Feed Direct Methanol Fuel Cells", 11th Annual Battery Conference Applications and Advances, pp. 113-22, 1996.

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